

### **Drew Robert Van Orden**

**Affiliation:** RJ Lee Group, Inc.

350 Hochberg Road Monroeville, PA 15146

**Education:** MA, Applied Statistics, University of Pittsburgh, 1998

MS, Mineral Process Engineering, Pennsylvania State University, 1979 BA, Meteorology and Oceanography, Millersville State College, 1975

Career/Employment: RJ Lee Group, Inc., 1986 - present

Senior Consulting Scientist

BJL Laboratoires, 1996 - 1997

Directeur Technique

Consulting Engineer, 1985 - 1986 US Steel Technical Center, 1979 - 1985

Research Project Engineer

### Summary:

- Conducted site evaluations at mines and quarries
- Conducted studies to determine nature of asbestos and non-asbestos amphibole particles
- Designed and directed studies to assess worker exposures to various materials
- Mined large datasets related to ambient and workplace asbestos concentrations
- Statistical analysis of complex data sets
- Extensive experience in mineral process engineering, including process optimizations and plant automation

## Honors, Awards, Fellowships & Memberships

- Registered Professional Engineer, Mineral Engineering, Commonwealth of Pennsylvania
- Society of Mining, Metallurgy, & Exploration, SME/AIME
- ASTM International, ASTM
- American Statistical Association, ASA
- American Industrial Hygiene Association, AIHA
- National Society of Professional Engineers, NSPE
- American Association for the Advancement of Science, AAAS
- The Geological Society of America, GSA
- The Mineralogical Society of America, MSA

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### **Publications**

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Lee, R. J., **Van Orden, D. R**., Cox, L. A., Arlaukus, S., and Kautz, R. J. (2017). "Response to Harper and Key-Schwartz", *Regulatory Toxicology and Pharmacology*, <u>83</u>, pp. 103, <a href="https://doi.org/10.1016/j.yrtph.2016.10.019">https://doi.org/10.1016/j.yrtph.2016.10.019</a>.

Lee, R., **Van Orden, D**. and Sanchez, M. (2016). "Response to Gordon 2016", *International Journal of Occupational and Environmental Health*, 23, pp. 172-176, <a href="https://doi.org/10.1080/10773525.2016.1227038">https://doi.org/10.1080/10773525.2016.1227038</a>.

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**Van Orden, D. R.**, Lee, R. J., Hefferan, C. M., Schlaegle, S. and Sanchez, M. (2016). "Determination of the Size Distribution of Amphibole Asbestos and Amphibole Non-Asbestos Mineral Particles", *The Microscope*, 64, pp 13-25.

Oczypok, E. A., Sanchez, M. S., **Van Orden, D. R.**, Berry, G. J., Pourtabib, K., Gunter, M. E., Roggli, V. L., Kraynie, A. M., and Oury, T. D. (2016). "Erionite-associated malignant pleural mesothelioma in Mexico", *International Journal of Clinical and Experimental Pathology*, 9, pp. 5722 – 5732.

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Ilgren, E. B., **Van Orden, D. R.**, Lee, R., Kamiya, Y., Hoskins, J. A. (2014). "Environmental 'Low Dose' Mesotheliomas and Their Relationship to Domestic Exposures-Preliminary Report", *Environment and Pollution*, <u>3</u>, pp. 48 – 54, <a href="https://doi.org/10.5539/ep.v3n2p48">https://doi.org/10.5539/ep.v3n2p48</a>.

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- Lee. R., Strohmeier, B., Bunker, K., Sanchez, M., and **Van Orden, D.** (2008). "The Challenge of Naturally Occurring Asbestos Characterization of Amphibole Particles in Mixed Mineral Dust," Keynote presentation at the 2008 Roy J. Shlemon Specialty Conference on The Geological Assessment of Naturally Occurring Hazardous Substances, AEG Foundation and Association of Environmental & Engineering Geologists, Folsom, CA, June 4-6.
- Glenn, R. E., Lee, R. J., Jastrem, L. M., Bunker, K. L, **Van Orden, D. R.**, and Strohmeier, B. R. (2008). "Asbestos: By Any Other Name, Is It Still?", *Chemical Regulation Reporter*, <u>32</u>, pp. 22-33.
- Lee, R. J., Strohmeier, B. R., Bunker, K. L., and **Van Orden, D. R.** (2008). "Naturally Occurring Asbestos: A Recurring Public Policy Challenge," *Journal of Hazardous Materials*, <u>153</u>, pp. 1-21, https://doi.org/10.1016/j.jhazmat.2007.11.079.
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